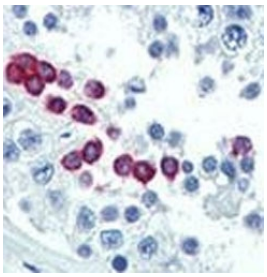
Cyclin D1 Antibody (CCND1) (F48111)

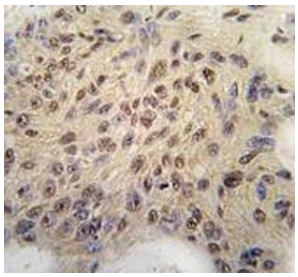
Catalog No.	Formulation	Size
F48111-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48111-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

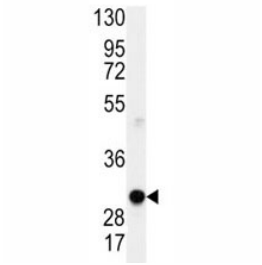
Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Bovine
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P24385
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50 Immunofluorescence: 1:10-1:50
Limitations	This Cyclin D1 antibody is available for research use only.



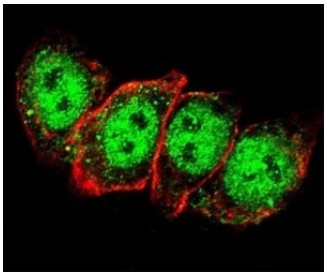
IHC analysis of FFPE human testis tissue stained with Cyclin D1 antibody



IHC analysis of FFPE human breast carcinoma tissue stained with Cyclin D1 antibody



Western blot analysis of Cyclin D1 antibody and mouse lung lysate. Predicted molecular weight: 32-36 kDa.



Confocal immunofluorescent analysis of Cyclin D1 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red).

Description

CCND1 is the regulatory component of the Cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. CyclinD-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. [UniProt]

Application Notes

Titration of the Cyclin D1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 68-97 from the human protein was used as the immunogen for this Cyclin D1 antibody.

Storage

Aliquot the Cyclin D1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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